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A Calculation of the Physical Constants of
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CRYSTALS OF TIN (Zum Elastischen Verhalten von
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text included) 8 refs.
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Trans. of Helvetica Physica Acta (Switzerland) 1934,
v. 7, p. 878-883.

DESCRIPTORS: *Crystals, *Single crystals, *Metal
crystals, *Tin, *Elasticity, Crystal structure,
Statistical analysis.

The orientation dependence of the elasticity- and torsion-
modulus of the tin crystal is indicated. By taking the
mean over the entire orientation range the moduli of the
quasi-isotropic polycrystal are calculated and compared
with experience. (Author) (See also 62-20280)
(Physics--Solid State, TT, v. 10, no. 1)

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Trans. of Netherlands patent application 227,597,
cl. 29 c 4 c (29 c 3) by N. V. Onderzoekingsinstituut
Research, appl. rec'd 7 May 58, made public 15 Sep 60

DESCRIPTORS: Synthetic fibers, Processing, *Threads,
Manufacturing methods.

The thread-forming substance is extruded in molten
condition through spin openings which are arranged at
equal distances from each other in parallel rows in a
spin plate. The openings in the successive rows are
(Materials--Textiles, TT, v. 7, no. 10) (over)

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DESCRIPTORS: *Rayon, Threads, Cordage, Tires,
Tensile properties, Stretch forming.

The strength loss of rayon cord yarns is influenced by
the yarn geometry, yarn construction as well as spin-
ning and testing conditions. In a given rayon yarn the
individual filaments do not remain in determined con-
centric layers but wander through many layers. A
uniform tension distribution is not always assured for
it depends on many conditions. As the coefficient of
friction decreases so should the strength loss for the
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DESCRIPTORS: *Fibers, *Amides, *Polymers, Stress, Microanalysis, Sulfuric acid.

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Soaps, Hydrochloric acid, *Nickel, *Cobalt, Sodium
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